What is claimed is

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- 1. A method of life like computer gaming and simulation comprising the steps of:

 providing a computer controlled display screen having an extensive surface;

 optically determining position of one or more points on a user or an object;

 providing data input relative to the determined position to said computer; and

 controlling a displayed image provided on said screen with said computer in

 response to said determined position of said user or object.
- 2. A method according to claim 1, wherein said determining step is accomplished with one or more TV cameras.
- 3. A method according to claim 2, wherein said cameras are located proximate said display screen.
- 4. A method according to claim 1, wherein said displayed image is substantially lifesize.
- 5. A method of gaming or simulation comprising the steps of:

 providing a screen or other surface on which video images are displayed;

 obtaining one or more optical images containing data concerning (a) one or more

 persons playing the game or simulation, or (b) objects used in said game or simulation;

from said image data, determining the location of one or more points on said persons or objects;

from said determined locations, determining at least one game parameter; and using said game parameter, changing an audio or video display characteristic of the game or simulation.

6. A method according to claim 5, wherein said data is an x and y location of a projectile object hit on said screen.

- 7. A method according to claim 5, wherein location of a point on an article of clothing worn by a person is determined.
- 8. A method according to claim 5, including the further step of providing an overlay on the screen indicative of some other gaming or simulation/attributes.
 - 9. A method according to claim 5, wherein said screen is a projection TV screen.
- 10. A method according to claim 5, wherein said object is an artifact that humans use in gaming.
- 11. A method according to claim 5, wherein said screen is capable of withstanding severe impacts of commonly used sports gaming objects used for the games in question.
 - 12. A method according to claim 5, wherein said display is viewed in 3-D by a user.
- 13. A method according to claim 5, wherein said images are digitized by at least one TV camera.
- 14. A method according to claim 13, wherein said TV camera is proximate said screen.
- 15. A method according to claim 5, wherein said object is a projectile whose trajectory is determined.
- 16. A method according to claim 5, wherein the location of a player or portion thereof is continuously tracked, and varying video imagery is displayed as a result of locations determined.

- 17. A method according to claim 5, wherein data concerning location of points on both persons and objects used in the game are determined.
- 18. A method according to claim 5, wherein location of a point is determined in 3 dimensions.
- 19. A method according to claim 5, wherein the point on a person is on the person's head, finger, hand or foot.
- 20. A method according to claim 5, wherein said point is of high contrast relative to its surroundings.
- 21. A method of gaming or simulation comprising the steps of:

 providing a screen or other surface on which video images are displayed;

 obtaining one or more optical images containing data concerning one or more

 persons playing said game or simulation, and objects used in said game or simulation;

from said image data, determining the location of a one or more points on said persons or objects;

from said determined locations, determining the relation of one or more points on said player or object to the displayed image on the screen; and

controlling the displayed image in accordance with said relation so determined.

- 22. A method according to claim 21, wherein said object is an artifact that humans use in gaming.
- 23. Apparatus for determining location of a person, object, or portion thereof in front of a display comprising:
 - a camera located proximate said display and looking outward therefrom; and a computer for analyzing images obtained by said camera.

- 24. Apparatus according to claim 23, wherein a stereo pair of cameras are used.
- 25. Apparatus according to claim 24, wherein said pair are located substantially on each side of the screen.
- 26. Apparatus according to claim 23, wherein said display is also able to display an image of said object or person obtained with said camera.
- 27. A method of gaming or simulation comprising the steps of:

 providing a screen or other surface on which video images are displayed;

 obtaining one or more optical images containing data concerning one or more

 persons playing said game or simulation, or of objects used in said game or simulation;

from said image data, determining the location of one or more points on said persons or objects;

using said determined locations, determining the relation of one or more points on said player or object to the displayed image on the screen; and

controlling the displayed image in accordance with said relation so determined.